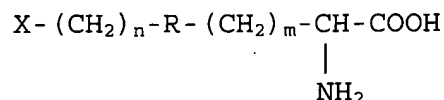


IN THE CLAIMS:

Please amend claims 3, 5, and 6. The current status of the claims is reflected in the below listing of claims.

1. (Currently amended) A halogenated amino acid analogue having the general formula:



wherein:

X is a radioactive halogen;

m is 0 or 1;

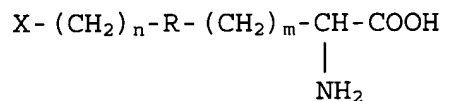
n is 0, 1, 2, 3, 4, 5, or 6;

R is (C₁ - C₆) alkyl optionally substituted with thioether or ether oxygen atom when n is 0; and

R is an aromatic ring, a heteroaromatic ring, or a substituted aromatic or heteroaromatic ring when n is 1, 2, 3, 4, 5 or 6.

2. (Withdrawn) The analogue of claim 1, wherein R is methyl, ethyl, propyl, isopropyl, butyl, tertiary butyl or methyl thioethyl.

3. (Currently amended) The analogue of claim 1, wherein A
halogenated amino acid analogue having the general formula:



wherein:

X is a radioactive halogen;

m is 0 or 1;

n is 0, 1, 2, 3, 4, 5, or 6;

R is (C₁ - C₆) alkyl optionally substituted with thioether

or ether oxygen atom when n is 0; and

R is phenyl, hydroxyphenyl, pyridyl, or hydroxypyridyl
when n is 1, 2, 3, 4, 5 or 6.

4. (Canceled)

5. (Currently amended) The analogue of claim ~~4~~ 1,
wherein the halogen is ^{18}F .

6. (Currently amended) The analogue of claim ~~4~~ 1,
wherein the halogen is ^{123}I .

Claims 7 - 8. (Canceled)

9. (Original) The analogue of claim 1, wherein the
analogue is selected from the group consisting of: [^{18}F] labeled
L,D-2-amino-3-(2-fluoromethyl-phenyl)-propionic acid; [^{18}F]
labeled L,D-2-amino-3-(3-fluoromethyl-phenyl)-propionic acid;
[^{18}F] labeled L,D-2-amino-3-(4-fluoromethyl-phenyl)-propionic
acid; [^{18}F] labeled L,D-2-amino-3-(2-fluoroethyl-phenyl)-
propionic acid; [^{18}F] labeled L,D-2-amino-3-(3-fluoroethyl-
phenyl)-propionic acid; [^{18}F] labeled L,D-2-amino-3-(4-
fluoroethyl-phenyl)-propionic acid; [^{18}F] labeled L,D-2-amino-3-
(3-fluoromethyl-pyridin-2-yl)-propionic acid; [^{18}F] labeled L,D-
2-amino-3-(4-fluoromethyl-pyridin-2-yl)-propionic acid; [^{18}F]
labeled L,D-2-amino-3-(5-fluoromethyl-pyridin-2-yl)-propionic
acid; [^{18}F] labeled L,D-2-amino-3-(6-fluoromethyl-pyridin-2-
yl)-propionic acid; [^{18}F] labeled L,D-2-amino-3-(3-fluoroethyl-
pyridin-2-yl)-propionic acid; [^{18}F] labeled L,D-2-amino-3-(4-
fluoroethyl-pyridin-2-yl)-propionic acid; [^{18}F] labeled L,D-2-
amino-3-(5-fluoroethyl-pyridin-2-yl)-propionic acid; [^{18}F]
labeled L,D-2-amino-3-(6-fluoroethyl-pyridin-2-yl)-propionic
acid; [^{18}F] labeled L,D-2-amino-3-(2-fluoromethyl-4-hydroxy-
phenyl)-propionic acid; [^{18}F] labeled L,D-2-amino-3-(5-

fluoromethyl-3-hydroxy-phenyl)-propionic acid; [^{18}F] labeled L,D-2-amino-3-(6-fluoromethyl-3-hydroxy-phenyl)-propionic acid; [^{18}F] labeled L,D-2-amino-3-(2-fluoroethyl-4-hydroxy-phenyl)-propionic acid; [^{18}F] labeled L,D-2-amino-3-(5-fluoroethyl-3-hydroxy-phenyl)-propionic acid; [^{18}F] labeled L,D-2-amino-3-(6-fluoroethyl-3-hydroxy-phenyl)-propionic acid; [^{18}F] labeled L,D-2-amino-3-(3-fluoromethyl-5-hydroxy-pyridin-2-yl)-propionic acid; [^{18}F] labeled L,D-2-amino-3-(3-fluoroethyl-5-hydroxy-pyridin-2-yl)-propionic acid; [^{18}F] labeled L,D-2-amino-3-(3-fluoromethyl-6-hydroxy-pyridin-2-yl)-propionic acid; [^{18}F] labeled L,D-2-amino-3-(4-fluoromethyl-6-hydroxy-pyridin-2-yl)-propionic acid; [^{18}F] labeled L,D-2-amino-3-(3-fluoroethyl-6-hydroxy-pyridin-2-yl)-propionic acid; [^{18}F] labeled L,D-2-amino-3-(4-fluoroethyl-6-hydroxy-pyridin-2-yl)-propionic acid; [^{18}F] labeled alanine; [^{18}F] labeled valine; [^{18}F] labeled leucine; [^{18}F] labeled isoleucine; and [^{18}F] labeled methionine.

10. (Original) A pharmaceutical composition comprising the analogue of claim 1 and at least one of an excipient, carrier and diluent.

11. (Original) The pharmaceutical composition of claim 10, wherein the pharmaceutical composition is used as a tracer in at least one of Positron Emission Tomography (PET) and functional Magnetic Resonance Imaging (MRI).

Claims 12 - 24. (Canceled)